

WOOD MAGIC

FOREST FAIR: 2019 ANNUAL REPORT



ABOUT WOOD MAGIC

Wood Magic Forest Fair is a free, fun, forestry-fact-filled field trip and festival for fifth-graders. A four-hour program of forestry-related educational experiences and demonstrations, the fair combines hands-on activities with visually engaging presentations to teach children about the importance of forest lands to wildlife, the economy and our daily quality of life. The program is designed to enable fifth-graders from across the state to:

- Demonstrate awareness that our society depends on forests for many products we use every day and that these products improve our quality of life.
- Explain the difference between renewable and non-renewable natural resources and apply the reduce-reuse-recycle principles of conservation.
- Recognize that many different management techniques are required to insure long-term sustainability of our forests.
- Describe the many environmental, social, and economic benefits of our forests.

These goals are accomplished through a variety of 25-minute hands-on activities led by volunteers from numerous organizations. For a pictorial description of each of the six learning stations, please visit the Wood Magic web site at: www.trees.sc.gov/wmfair.htm.

HISTORY

The South Carolina Wood Magic Forest Fair was first held Oct. 18-22, 1999 at Harbison State Forest in Columbia. The program has been an extreme success, with over 38,261 participants in the 21 years since it began. Demand for the program has always exceeded the capacity since its inception. In 2017, with funding provided by a Sustainable Forestry Initiative Community Grant, the program was revised to become a fifth-grade program. SFI Community Grant funding helped pay for new educational materials, signage, revisions to meet fifth-grade educational standards, and other associated costs to include an extra day of the program.

This year's Fair was scheduled at three locations: SC Botanical Garden in Clemson, Harbison State Forest in Columbia, and Hobcaw Barony Discovery Center in Georgetown. Past programs have also been held at the Piedmont Forestry Center in Tamassee, Lynches River County Park in Florence, S.C. State University's Camp Daniels, and Sewee Environmental Education Center on the coast, as well as in-school programs in the Upstate during the 2003 school year.

The 2019 WMFF was coordinated by the S.C. Forestry Commission, and financed through donations and grants. Approximately 163 volunteers from the forestry community and other organizations came together this year to make this forestry education program successful.





“The activities made the day fly by. The kids were very engaged. The Good Fire/Bad Fire station was the best. They did a great job explaining and demonstrating.”

– Susan Bowers
Whitmire Community School



Each spring, every public and private school with a fifth grade that is registered with the State Board of Education is sent an invitation and application for the Wood Magic Forest Fair. Applications are scheduled during the summer on a first-come-first-served basis, with some consideration given to schools that have never attended, as well as previous records of attendance and participation.

PARTICIPATION FOR 2019

Location	Applications Received	Classes Applied	Classes Attending	Children Attending	Teachers & Other Adults	Total Participants
SC Botanical Garden	21	71	30	584	105	689
Harbison	42	154	44	749	129	878
Hobcaw Barony	21	59	31	543	79	622
TOTALS:	84	284	105	1,876	313	2,189

PARTICIPATION SINCE 1999

Location	Applications Received	Classes Attending	Children Attending	Teachers & Other Adults	Total Participants
Piedmont (2004-2010, 2012, 2014-16, 2018)	201	281	5,456	889	6,345
Upstate (in-school, 2003)	92	32	744	37	781
SC Botanical Garden (2002, 2017, 2019)	121	88	1,779	394	2,173
Camp Daniels (2001)	43	43	786	172	958
Harbison (1999-2011, 2013-19)	1,478	780	13,420	2,665	16,085
Sewee (2000-2010, 2013, 2017)	505	401	7,797	1,534	9,331
Hobcaw (2012, 2014, 2016, 2019)	63	100	1,838	292	2,130
Lynches River (2015, 2018)	26	68	860	173	1,033
TOTALS:	2,529	1,715	32,680	6,156	38,836

*NOTE: In 2004 an improved system of taking applications only from schools, not individual teachers, began reducing the number of applications received. In 2010 applications were received for the Piedmont, Sewee and Harbison events, but only the Harbison event was held. In 2015 the Harbison event was canceled because of historic flooding in the Midlands.



ATTENDING SCHOOLS

SOUTH CAROLINA BOTANICAL GARDEN

Bob Jones Academy Greenville
 Christ Church Episcopal..... Greenville
 Clemson Elementary..... Clemson
 Diamond Hill Elementary Abbeville

John C. Calhoun Elementary Calhoun Falls
 Paris Elementary Taylors
 SC School for the Deaf Spartanburg
 Spearman Elementary Piedmont

HARBISON STATE FOREST

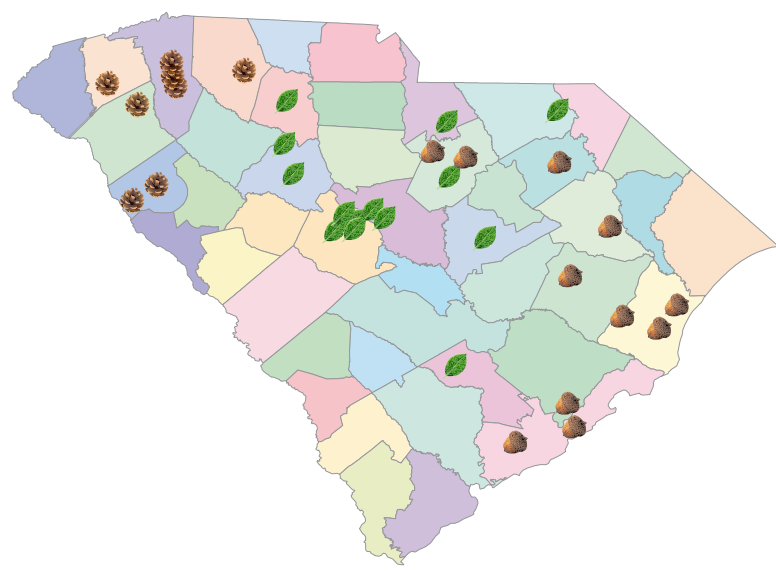
Dorchester Academy..... St. George
 Faith Christian Academy Cheraw
 Foster Park Elementary Union
 Heritage Christian Academy Lexington
 Holy Trinity Lutheran West Columbia
 Hyatt Park Elementary Columbia
 Kershaw Elementary..... Kershaw




Midway Elementary..... Lexington
 Newberry Academy Silverstreet
 St. Joseph Catholic Columbia
 The Montessori School of Camden Camden
 White Knoll Elementary..... West Columbia
 Whitmire Community..... Whitmire
 Wilder Elementary Sumter

HOBCAW BARONY DISCOVERY CENTER

Andrews Elementary..... Andrews
 Baron-Dekalb Elementary Camden
 Coastal Christian Preparatory Mt. Pleasant
 Hannah Pamplico Elementary..... Pamplico
 Lowcountry Leadership Charter Hollywood
 McDonald Elementary Georgetown

Midway Elementary..... Cassatt
 Philip Simmons Middle Wando
 Plantersville Elementary Georgetown
 Temple Christian Academy Darlington
 Williamsburg Academy Kingstree



-  Schools attending at South Carolina Botanical Garden
-  Schools attending at Harbison State Forest
-  Schools attending at Hobcaw Barony Discovery Center



“The students were engaged and moving. The balance of talking/teaching to hands-on activities was good! The organization of the whole program was perfect.”

– Teacher
at SC Botanical Garden event



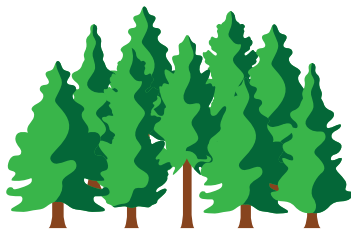
KNOWLEDGE GAINED

Every year teachers are asked to administer a pre-test and a post-test for the children who attend Wood Magic. The following highlights of those test measures are a testament to the effectiveness of the program.

+29
PERCENTAGE
POINTS

Students showed a significant gain in knowledge about forests in all of the major categories measured.

Overall, the students' scores increased from 56 percent on the pre-test to 85 percent on the post-test.



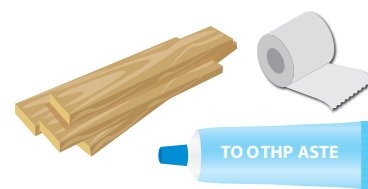
Before the program, only 39% of the students understood that the U.S. has more forests today than it did 100 years ago. 82% knew this to be the case afterward.



89% of the students now recognize that more trees are planted each year in South Carolina than are harvested.



Before attending, 49% of the students thought that prescribed (controlled) fires were harmful to forests and wildlife habitat. Afterward, 91% of the students recognized that prescribed (controlled) fires are used to improve forests and wildlife habitat.



Beforehand, only 31% of the students thought that using trees for the products we need is an environmentally friendly thing to do. After participating in this program, 83% now recognize the environmental benefits of forests and believe this to be true.



82% of the students now recognize that trees are a renewable natural resource.



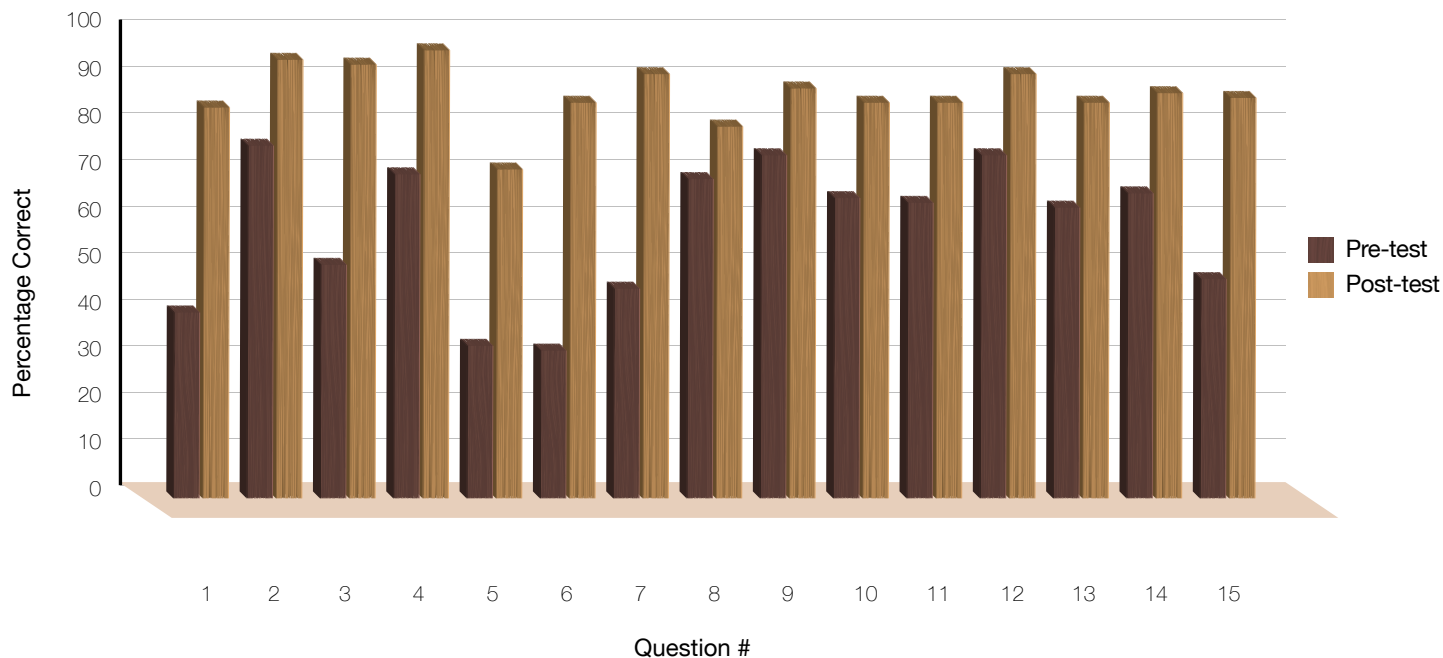
After attending the fair, 69% of the students understood the main reason to recycle paper is to save landfill space and reduce waste. Only 32% understood this beforehand.



Question	Pre-Test	Post-Test	Emphasis Of Test Question
1	39%	82%	There are more forests today than 100 years ago.
2	74%	92%	Trees are a renewable natural resource.
3	49%	91%	Prescribed fire can be used to improve forests and wildlife habitat.
4	68%	94%	Every part of a log is used when brought into a sawmill. There is no waste.
5	32%	69%	The main reason to recycle paper is to save landfill space and reduce waste.
6	31%	83%	Growing and harvesting trees to make products for our everyday use is environmentally friendly.
7	44%	89%	In SC there are more trees planted than are harvested each year.
8	67%	78%	Forests clean the air and water we use.
9	72%	86%	Oil and gas are non-renewable natural resources.
10	63%	83%	Definition of: Natural Resources
11	62%	83%	Definition of: Renewable
12	72%	89%	Definition of: Non-Renewable
13	61%	83%	Definition of: Biodegradable
14	64%	85%	Definition of: Recycle
15	46%	84%	Student can list at least 10 items that they use daily that come from wood.

* 1,277 student pre-tests were measured against 888 post-tests returned.

2019 WMFF Test Results





“The pre-visit and post-visit materials were very helpful. The instructors were great with my students. This was so very organized. We raved about it for days! Thank you so very much!”

– Teacher
at Hobcaw Barony event



INCOME

2018 Carry-over funds.....	\$19,578.00
SC SFI Implementation Committee Funds	\$10,500.00
International Paper Foundation Grant	\$5,000.00
Dominion Energy	\$2,500.00
Sawmill Fundraiser (Various Donors)	\$2,482.35
South Carolina SAF	\$1,200.00
The Conservation Districts Foundation.....	\$1,000.00
Georgia-Pacific, LLC	\$1,000.00
SC Tree Farm Committee	\$750.00
NC Forestry Association (Video Donation).....	\$500.00
Total Income	\$44,510.35

EXPENSES

Food.....	\$6,668.16
Tent/Chair/Table/Toilet/Facility Rentals	\$5,497.00
Postage/Mail Service/Publicity	\$881.87
Office supplies, Misc.	\$654.84
Travel/Lodging.....	\$620.00
Insurance	\$506.33
T-shirts	\$0*
Total Expenses	14,828.20

BALANCE **\$29,682.15**

IN-KIND CONTRIBUTION **\$93,446.00**

*\$6,241.80 T-shirt expense for 2019 will be paid in 2020 budget

Funds for the 2019 Wood Magic Forest Fair were provided through grants from the following organizations:





CONTRIBUTORS

South Carolina's Wood Magic Forest Fair is jointly sponsored by the Forestry Association of SC and SC Forestry Commission. Special thanks to the following organizations that provided monetary support of \$3,000 or greater.

SC SFI Implementation Committee
International Paper Foundation

Sustainable Forestry Initiative, Inc.

Special thanks to the following organizations that provided financial support and/or in-kind services (personnel, equipment, and supplies).

Bobcat Forestry
Belle W. Baruch Foundation
Blanchard Machinery
Blue Ridge Electric Cooperative
Boise Cascade Wood Products
Canfor Southern Pine
Catchmark
Central Carolina Technical College
Charles Ingram Lumber Company
Chestatee Chattahoochee RC&D Council
Clemson Extension
Clemson University Forestry Dept.
Collum's Lumber Products LLC
Domtar Paper Company LLC
Enviva Pellets Greenwood, LLC
Evergreen Packaging Corp.
Forest Investment Associates
Forest Stewardship Program - USFS
Forestry Association of SC
Georgia-Pacific LLC
Green Diamond Management Co.
GreenWood Resources, Inc.
Hancock Natural Resource Group
Hobcaw Barony
Interfor
International Paper
Jordan Lumber & Supply Co.

Natural Resource Conservation Service
New-Indy Catawba
Norbord SC
Palmetto Timber Inventory Specialists
Pollard Lumber
Rayonier
Resolute Forest Products
Resource Management Service
Roy's Wood Products
SC Botanical Garden
SC Forestry Commission
SC Master Naturalist
SC Society of American Foresters
SC Timber Producers Association
SC Tree Farm
Sonoco Products Company
Sonoco Recycling
Southern Group of State Foresters
Timberland Investment Resources
Trenton Correctional - SC Dept. of Corrections
True North Forestry LLC
US Fish & Wildlife Service
US Forest Service
USC School of Medicine
West Fraser, Inc.
WestRock
Weyerhaeuser Co.



“The pre-visit packet had great standards-based activities. Love the use of humor and magic! Students learned a lot about wood products and how things are linked together through the forest.”

– Amy M. Hughes
Foster Park Elementary



STAFF

The success of South Carolina's Wood Magic Forest Fair can be attributed to the dedication, technical competence and hard work of the 163 volunteers:

David Bagwell	SCFC	Carolyn Dawson	Clemson Extension
Bruce Ballentine	SCFC	Justin Demiter	International Paper
Jon Barker	SCFC	Jason Duck	SCFC
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Lee Brockington.....	Hobcaw Barony	Matt Gordon	SCFC
Susan Brogdon	SCFC	Madison Graham.....	SCFC
Jarrold Brucke	SCFC	Tyler Greiner	SCFC
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Grace Anna Cooper.....	SCFC	Justin Holt	SCFC
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Trey Cox	SCFC	Henry Hutto	SCFC
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Carter Cummings	SCFC	David Jenkins	SCFC
Jennie Cundiff	Resource Management Service	Parker Johnson	Clemson Extension
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Mallory Dailey	Clemson Extension	Michelle Johnson.....	SCFC
Jessica Daniel.....	CCTC	Katie Jordan.....	Clemson University

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Rita Kernan	Master Naturalist	Jessica Simpson	Clemson Extension
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Matt Krawiec	Domtar Paper Company LLC	Jamie Smith.....	SCFC
William Ladd	SCFC	Wayne Smith.....	SCFC
Joey Lemmon	SCFC	Gretchen Spaulding	SCFC
Rick Lint	USFS	Mildred Spearman	Master Naturalist
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Kent Low	Volunteer	Sam St. Louis	SCFC
Randy Lyles	SCFC	Janet Steele.....	Clemson Extension
Joseph Marlowe.....	SCFC	Tom Stephens	Georgia-Pacific
Judy Mayer	Volunteer	Janine Sutter.....	Clemson Extension
Amy McClellan.....	Resource Management Service	Sarah Talley	USFS
Kim McCollum.....	Chestatee Chattahoochee RC&D Council	David Taylor	SCFC
Chris McCorkle.....	SCFC	John Thurmes	True North Forestry LLC
John McGee	SCFC	Bran Tisdale.....	SCFC
Michael McGill.....	SCFC	Rick Tootle.....	USFS
Amy McGrath.....	Horry-Georgetown Tech	Lisa Unger.....	Volunteer
Blake McMichael	Rayonier	Margaret Utecht	Domtar Paper Company LLC
Patricia Midgett.....	USFWS	Nancy Walker.....	Volunteer
Ron Mildestein.....	Volunteer	Barbara Walsh.....	Volunteer
Trip Miller.....	SCFC	Tom Walsh	Volunteer
Doug Mills.....	SCFC	David Watford.....	Resource Management Service
Trent Moore.....	Interfor - Georgetown Division	Elamon White	USFS
Larry Moody	SCFC	Patricia Whitener	Clemson Extension
David Myers.....	Rayonier	Danny Whitner	Canfor Southern Pine
Mike Ney.....	SCFC	Tyler Wiggers	SCFC
Joey Nicoll	Boise Cascade	Nancy Williams	USC School of Medicine
Emily Oakman.....	Forestry Association of SC	Allison Williams	USFS
Christine O'Connell.....	Volunteer	Liza Wilson	Clemson University
David Owen.....	SCFC	Betty Wilson	Resource Management Service
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Ronnie Patterson.....	SCFC	Doug Wood.....	SCFC
Stephen Patterson	SCFC		
Brad Phillips.....	SCFC		
Zannie Poston	Volunteer		
Zeb Quattlebaum.....	Hobcaw Barony		
Soni Rai	SCFC		
Phil Reddick.....	SCFC		
Conner Rederick.....	CCTC		
Jeff Riggin.....	SCFC		
Frank Riley	Chestatee Chattahoochee RC&D Council		
Betty Roberts.....	Volunteer		
James Robins.....	SCFC		
Clay Rogers.....	SCFC		
Byron Rominger.....	SCFC		
T.J. Savereno	Clemson Extension		
Eva Scharfstein.....	Volunteer		
Matt Schnabel.....	SCFC		
Ginnie Sheckells.....	Volunteer		



CONTRIBUTIONS OF PERSONNEL

Contributor	# Personnel	% Personnel	# Man Hours	% Man Hours
SC Forestry Commission	69	42%	1443	50%
Federal Government	8	5%	114	5%
Other Government Agencies	25	15%	379	13%
Private Sector	47	29%	803	28%
Volunteers	14	9%	135	4%
TOTALS:	163	100%	2874	100%

STEERING COMMITTEE

The Wood Magic Forest Fair Steering Committee is made up of volunteers from the forest industry, state and federal agencies, and private foundations who help oversee and organize the program.

Pam Baltimore US Forest Service
Ryan Bean Clemson Extension
Sabrenna Bryant USDA NRCS
George Chastain Belle W. Baruch Foundation
Mallory Dailey Clemson Extension
Beth Foley SC Forestry Commission
Russell Hubright SC Forestry Commission
Crad Jaynes SC Timber Producers Association

Patricia Midgett US Fish & Wildlife Service
Trent Moore (Chair) Interfor – Georgetown Division
Emily Oakman Forestry Association of SC
Jay Phillips Resource Management Service
Matt Schnabel SC Forestry Commission
Eric Smith WestRock
John Thurmes True North Forestry

“The program was fun, informational, and fast-paced. The students were involved, and they learned a lot. The assessment data shows that they understood what was happening.”

– Herbert Jenkins
Andrews Elementary



